

**We claim:**

- 1. An apparatus for encapsulation comprising:
  - a) at least one casting drum; and**
  - b) a valved injection wedge.****
- 2. The apparatus according to claim 1 wherein said valved injection wedge comprises injection ports and return ports.**
- 3. The apparatus according to claim 2 additionally comprising at least two fill hoppers and at least two sets of fill lines and at least two sets of return lines.**
- 4. The apparatus according to claim 3 wherein said valved injection wedge comprises fill exit ports and a distributor/shut-off plate.**
- 5. The apparatus according to claim 1 wherein said valved injection wedge comprises heating elements.**
- 6. The apparatus according to claim 1 wherein said valved injection wedge has at least three valve positions.**
- 7. The apparatus according to claim 6 wherein said three valve positions are closed, active fill and placebo fill.**
- 8. The apparatus according to claim 1 additionally comprising at least two pumps.**
- 9. The apparatus according to claim 8 wherein said pumps are active fill pumps and placebo fill pumps.**
- 10. The apparatus according to claim 1 wherein said valved injection wedge is a three-way valve.**

11. The apparatus according to claim 1 wherein said valved injection wedge is adapted to switch from placebo fill to active fill and vice versa.
12. The apparatus according to claim 1 wherein said valved injection wedge comprises a three way valve.
13. The apparatus according to claim 1 additionally comprising an extrusion device.
14. An apparatus for applying a polymer to a substrate comprising:
  - a) means to melt said polymer on demand; and
  - b) a three-way valved injection wedge.
15. The apparatus according to claim 13 wherein said extrusion device comprises a chamber and an extrusion slot.
16. The apparatus according to claim 15 wherein said extrusion device is a coat hanger die.
17. The apparatus according to claim 14 additionally comprising at least two fill hoppers, at least two sets of fill lines and at least two sets of return lines.
18. An apparatus for forming capsules comprising:
  - a) a plurality of movable dies cooperatively forming an encapsulation region;
  - b) means for holding and pumping an active fill material;
  - c) means for holding and pumping a placebo fill material; and

d) a valve disposed between said encapsulation region and said means for holding and pumping fill material, adapted to switch from placebo fill material and active fill material.

19. The apparatus according to claim 18 additionally comprising active return means and placebo return means.